

ABSTRACT OF THE DISCLOSURE

A method for estimating motion between two digital images I_1 and I_2 , with brightness Y_1 and Y_2 for generating, for each point of coordinates x, y of image I_2 a motion vector $d(x,y)=(d_x,d_y)$ so as to form an image \hat{I}_2 from image I_1 with brightness $\hat{Y}_2(x,y)=Y_1(x-d_x,y-d_y)$ which is an approximation of image I_2 . The method consists in using a model of finite elements and a differential method for determining the motion field of image I_2 . The mesh associated with the model of finite elements is refined as the motion estimation is being carried out.

09786173-052101